

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11848 (1987): Crowfoot Spanners [PGD 5: Assembly Hand Tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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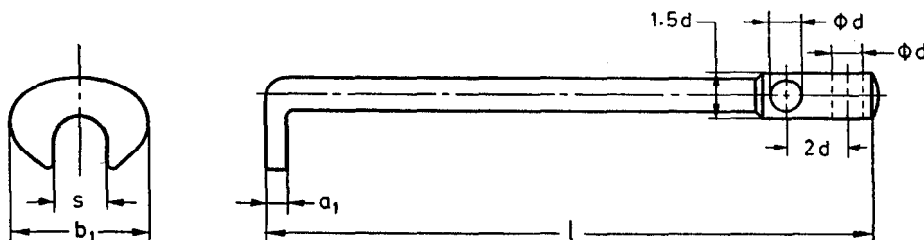


Indian Standard

SPECIFICATION FOR
CROWFOOT SPANNERS

1. Scope — Covers the dimensions and requirements of crowfoot spanners of torque series C and D of IS:6131-1980 'Technical requirements of hand operated wrenches (spanners) and sockets (first revision)'.

2. Dimensions



Nominal Width Across Flats s	Thickness a_1 Min	Width of Head b_1 Max	Hole Dia d Min	Length l \approx
13	5.5	34	8	160
14		36		
16		41		
17	6	43	10	200
18		45		
19		47		
21	7	51	12	200
22		53		
24		57		
27	10	64	14	250
30		70		
32		74		
34	13	78	16	315
36		83		
41		93		
46	15	104	18	400
50		112		
55		123		

2.1 The tolerances on the width across flats dimensions (s) shall be in accordance with IS:2027-1980 'Width across flats for spanners and sockets (second revision)' as specified for forged and subsequently machined spanners.

3. Tommy Bar — The spanners shall be provided with two holes suitable for tommy bars conforming to IS:6002-1971 'Tommy bar for box spanners'.

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3.1 The tommy bars shall be a separate item and shall be supplied with the spanner if specifically ordered.

4. Material — Suitable alloyed or carbon steel which after heat treatment, fulfil the requirements of hardness and torque tests specified at **5** and **7**. One of the suitable alloy steel for torque series C wrenches is T50 Cr 4V2 as specified in IS:3749-1978 'Tool and die steel for cold work (*first revision*)' and for torque series D wrenches carbon steels are 35C4 and 40C5 as specified in IS:1570 (Part 2)-1979 'Carbon steels (*unalloyed steel*) (*first revision*)'.

5. Hardness — Spanners shall be hardened throughout and the hardness measured at any point on the spanner shall be within the limits specified in IS:6131-1980.

6. Designation — The spanners shall be designated by commonly used name, torque series, nominal width across flats and number of this standard.

Example: A crowfoot spanner of torque series C, with nominal width across flats as 30 mm shall be designated as:

Crowfoot Spanner C 30 IS:11848

7. Workmanship and Finish, Sampling, Torque Testing and Preservation and Packing — Shall be in accordance with IS:6131-1980. Test torque values shall conform to series C if made of alloy steel and series D if made of carbon steel as specified in IS:6131-1980.

8. Marking — Spanners shall be legibly stamped with the nominal width across flats near the spanner working ends and manufacturer's name, initials or registered trade-mark on the body.

8.1 Certification Marking — Details available with the Bureau of Indian Standards.

EXPLANATORY NOTE

These type of spanners are used for assembling of those nuts and bolts which are inaccessible and the movement of ordinary spanners is not possible. Common uses of these spanners are in automobiles. While preparing this specification, considerable assistance has been taken from the catalogues of the manufacturers of this product.

Widths of head specified here are in alignment with ISO 3318-1982 'Assembly tools for screw and nuts open and double head engineer's wrenches, double head box wrenches and combination wrenches—Maximum width of heads, issued by the International Organization for Standardization (ISO).